

## REMOVAL OF MERCURY AND NOX IN GAS

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**Inventor:** OGAKI YOJI; YOSHII YUJI; FUJISAWA YOSHINARI;  
MIYAJI TSUNEHARU

**Applicant:** NIPPON KOKAN KK

**Classification:**

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- European:

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### Abstract of **JP3056123**

**PURPOSE:** To remove NO<sub>x</sub> and mercury in gas and to prevent environmental pollution by bringing gas containing mercury and NO<sub>x</sub> into contact with a hypochlorite-containing washing solution and further bringing said gas into contact with a washing solution to which a reducing agent reactive with chlorine is added.

**CONSTITUTION:** Gas containing mercury and NO<sub>x</sub> is brought into contact with a washing solution containing hypochlorite (e.g., NaClO) in the first and second towers 20, 40 and mercury and NO<sub>x</sub> are absorbed by said washing solution. Subsequently, the above-mentioned gas is brought into contact with a washing solution which a reducing agent (e.g., Na<sub>2</sub>SO<sub>3</sub>) reactive with chlorine is added in the third tower 60 to remove chlorine in said gas. As a result, NO<sub>x</sub> and mercury contained in gas such as combustion exhaust gas are certainly removed and chlorine contained in the treated gas is absorbed to be prevented from the discharge to the atmosphere and environmental pollution can be prevented.



